

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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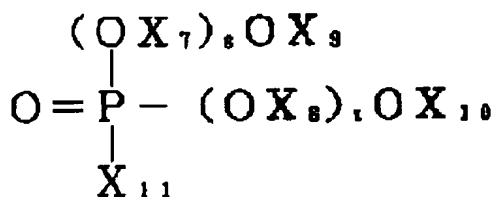
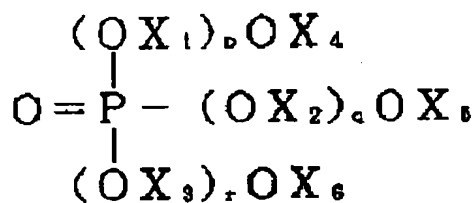
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APPLICANT : KAO CORP;

INVENTOR : KOBAYASHI YUICHIRO;

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C10M137:04 , C10M137:12 ) C10N  
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TITLE : HYDRAULIC FLUID COMPOSITION  
FOR REFRIGERATING MACHINE



I

II

ABSTRACT : PURPOSE: To inexpensively obtain the subject composition capable of diminishing the wear of metal contact surface, excellent in compatibility, thermal stability, electrical insulation and low hygroscopicity, generating no carboxylic acid due to its hydrolysis, comprising a specific base oil, a phosphorus compound and a hydrofluorocarbon.

CONSTITUTION: This hydraulic fluid composition comprises (A) a lubricating oil composition comprising a base oil A<sub>1</sub> mainly consisting of a cyclic ketal or cyclic acetal and a phosphorus compound A<sub>2</sub>, i.e., a compound of formula I [X<sub>1</sub>-X<sub>3</sub> are each a 2-4C (branched) alkylene; X<sub>4</sub>-X<sub>6</sub> are each a 1-18C (halogenated) straight-chain alkyl, 3-18C branched alkyl, 2-18C straight-chain alkenyl, 3-18C branched alkenyl, 6-18C (halo)aryl or 7-18C aralkyl; (p), (q) and (r) are each 0-30] or formula II (X<sup>7</sup> and X<sup>8</sup> are each same as X<sup>1</sup>; X<sup>9</sup>-X<sup>11</sup> are each same as X<sup>4</sup>; (s) and (t) are each same as (p)) and (B) a hydrofluorocarbon.

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